In the Claims

1. [Original] A communications device identification method comprising:

providing identification information regarding a group of wireless identification devices within a wireless communications range of a reader:

using the provided identification information, selecting one of a plurality of different search procedures for identifying unidentified ones of the wireless identification devices within the wireless communications range; and

identifying at least some of the unidentified ones of the wireless identification devices using the selected one of the search procedures.

- 2. [Original] The method of claim 1 wherein the providing the identification information comprises determining a range of identifiers of the wireless identification devices which may be within the wireless communications range.
- [Original] The method of claim 2 wherein the providing the identification information comprises determining a number of wireless identification devices which may be within the wireless communications range.
- [Original] The method of claim 3 wherein the determining the number comprises calculating a difference between wireless communications devices having minimum and maximum identifiers.

 [Original] The method of claim 4 wherein the determining the number comprises determining using a binary search to identify the wireless communications devices having the minimum and maximum identifiers.

6. [Original] The method of claim 3 wherein the determined range and number correspond to respective ones of N and M, and the selecting comprises selecting a first search procedure if $M < N/LOG_2(N)$ and selecting a second search procedure if $M > N/LOG_2(N)$.

 [Original] The method of claim 6 wherein the first search procedure comprises a binary search procedure and the second search procedure comprises a walk-through search procedure.

8. [Cancelled].

- [Original] The method of claim 1 further comprising communicating data intermediate identified ones of the wireless identification devices and the reader.
- 10. [Original] The method of claim 9 wherein the communicating from at least one of the wireless identification devices to the reader comprises communicating using backscatter modulation.

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11. [Original] The method of claim 1 wherein the reader and the wireless

identification devices are configured to implement radio frequency identification device

(RFID) communications.

12. [Previously Presented] A communications device identification method

comprising:

identifying a first of a plurality of wireless identification devices within a wireless

communications range of a reader configured to communicate with the wireless

identification devices:

identifying a second of the wireless identification devices within the wireless

communications range of the reader;

selecting one of a plurality of different search procedures using the identifyings of

the first and the second of the wireless identification devices; and

identifying at least one unidentified wireless identification device within the

wireless communications range using the selected one of the search procedures.

13. [Previously Presented] The method of claim 12 wherein the first and the

second of the wireless identification devices comprise wireless identification devices

having respective ones of a minimum identifier and a maximum identifier.

14. [Original] The method of claim 12 further comprising communicating with

at least one of the identified wireless identification devices using the reader after the

identifying.

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15. [Original] The method of claim 12 wherein one of the search procedures comprises a binary search procedure, and an other of the search procedures comprises a walk-through search procedure.

16. [Cancelled].

17. [Original] A communications device identification method comprising:

providing information regarding a range of identifiers of wireless communications devices which may be within a wireless communications range of a reader;

providing information regarding a number of wireless communications devices which may be within the wireless communications range;

selecting a binary search procedure if $M < N/LOG_2(N)$, wherein M is the range of the identifiers of the wireless communications devices and N is the number of wireless communications devices; and

selecting a walk-through search procedure if M > N/LOG₂(N).

18. [Original] A communications method comprising:

providing a first group of wireless identification devices within a wireless communications range of a reader at a first moment in time:

providing first identification information regarding the first group;

first selecting one of a plurality of different search procedures for identifying the wireless identification devices of the first group, wherein the first selecting comprises selecting using the first identification information:

identifying unidentified ones of the wireless identification devices of the first group using the selected one of the search procedures:

providing a second group of wireless identification devices within the wireless communications range of the reader at a second moment in time;

providing second identification information regarding the second group;

second selecting an other of the different search procedures using the second identification information; and

identifying unidentified ones of the wireless identification devices of the second group using the selected other of the search procedures.

- 19. [Original] The method of claim 18 further comprising communicating data intermediate the reader and identified ones of the wireless identification devices of the first and the second groups.
 - 20. [Previously Presented] A wireless communications reader comprising:

an antenna configured to communicate wireless signals within a wireless communications range; and

processing circuitry coupled with the antenna and configured to implement wireless communications with a plurality of wireless identification devices within the wireless communications range via the antenna, to analyze a number of wireless identification devices which may be present within the wireless communications range with respect to a range of identifiers of wireless identification devices which may be present within the wireless communications range, to select one of a plurality of search

procedures using the analysis, and to identify at least one of the wireless identification devices within the wireless communications range using the selected search procedure.

- [Original] The reader of claim 20 wherein the processing circuitry is configured to estimate the number of the wireless identification devices.
- 22. [Original] The reader of claim 21 wherein the processing circuitry is configured to identify minimum and maximum ones of the wireless identification devices and to calculate a difference between the minimum and maximum ones of the wireless identification devices to estimate the number.
- 23. [Original] The reader of claim 20 wherein the processing circuitry is configured to estimate the range of identifiers of the wireless identification devices.
- 24. [Original] The reader of claim 23 wherein the processing circuitry is configured to estimate the range corresponding to minimum and maximum possible values associated with the processing circuitry.
- 25. [Original] The reader of claim 20 wherein the range of the identifiers of the identification devices and the number of the wireless identification devices correspond to respective ones of N and M, and wherein the processing circuitry is configured to select a first of the search procedures if M < N/LOG₂(N) and to select a second of the search procedures if M > N/LOG₂(N).

- 26. [Original] The reader of claim 25 wherein the first search procedure comprises a binary search and the second search procedure comprises a walk-through search procedure.
- 27. [Original] The reader of claim 20 wherein the processing circuitry is configured to process backscatter modulation communications received from at least one of the wireless identification devices.
- 28. [Original] The reader of claim 20 wherein the processing circuitry is configured to implement radio frequency identification device (RFID) communications using the antenna.
 - 29. [Previously Presented] A wireless communications system comprising:
- a wireless communications reader configured to implement wireless communications within a wireless communications range;
- a first group of wireless identification devices located within the wireless communications range at a first moment in time:
- a second group of wireless identification devices located within the wireless communications range at a second moment in time;
- wherein the wireless communications reader is configured to obtain the identity of at least one of the wireless identification devices of the first group using a first search procedure and to obtain the identity of at least one of the wireless identification devices

of the second group using a second search procedure different than the first search procedure; and

wherein the wireless communications reader is configured to select the first and the second search procedures using an analysis of group identification information of respective ones of the first group and the second group.

- 30. [Original] The system of claim 29 wherein the wireless communications reader and identified ones of the wireless identification devices are configured to exchange wireless communications.
- 31. [Original] The system of claim 29 wherein the first search procedure comprises a binary search procedure and the second search procedure comprises a walk-through search procedure.
 - 32. [Currently Amended] An article of manufacture comprising:
- [[a]] <u>at least one computer-readable storage</u> medium comprising executable instructions <u>stored thereon that are</u> configured to cause processing circuitry of a wireless communications reader to:

access information regarding a plurality of wireless identification devices which may be within a <u>wireless</u> communications range of the wireless communications reader:

select one of a plurality of different search procedures using the accessed information, wherein the different search procedures comprise procedures for identifying unidentified ones of the wireless identification devices; and

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identify unidentified ones of the wireless identification devices using the selected one of the search procedures.

- 33. [Original] The article of claim 32 wherein the executable instructions are configured to cause the processing circuitry to access the information comprising a range of identifiers of the wireless identification devices and a number of the wireless identification devices.
- 34. [Original] The article of claim 32 wherein the executable instructions are configured to cause the processing circuitry to implement wireless communications with at least one of the identified wireless identification devices.
- 35. [Previously Presented] The method of claim 1 wherein the plurality of different search procedures individually comprise a search procedure for identifying the at least some of the unidentified ones of the wireless identification devices within an entirety of the same wireless communications range of the reader.
- 36. [Previously Presented] The method of claim 1 wherein the plurality of different search procedures individually comprise different steps which are performed to identify the at least some of the unidentified ones of the wireless identification devices.
- [Previously Presented] The method of claim 12 wherein the plurality of different search procedures individually comprise a search procedure for identifying the

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at least one unidentified wireless identification device within an entirety of the same wireless communications range of the reader.

- 38. [Previously Presented] The method of claim 12 wherein the plurality of different search procedures individually comprise different steps which are performed to identify the at least one unidentified wireless identification device.
- 39. [Previously Presented] The reader of claim 20 wherein the plurality of search procedures individually comprise a search procedure usable to identify the at least one wireless identification device within an entirety of the same wireless communications range.
- 40. [Previously Presented] The reader of claim 20 wherein the plurality of search procedures individually comprise different steps which are performed to identify the at least one wireless identification device.
- 41. [Previously Presented] The method of claim 1 wherein each of the search procedures is configured to provide unique identifications which completely identify the wireless identification devices.
- 42. [Previously Presented] The method of claim 1 wherein the providing comprises providing the identification information prior to any communications of the reader with the wireless identification devices.

- 43. [Previously Presented] The reader of claim 20 wherein each of the search procedures is configured to provide unique identifications which completely identify the wireless identification devices.
- 44. [Previously Presented] The reader of claim 20 wherein the processing circuitry is configured to analyze the number of wireless identification devices prior to any communications of the reader with the wireless identification devices.
- 45. [Previously Presented] The method of claim 12 wherein the search procedures are configured to be implemented independent of one another.
- 46. [Previously Presented] The method of claim 18 wherein the first selecting comprises selecting prior to any searching of the wireless identification devices of the first group and the second selecting comprises selecting prior to any searching of the wireless identification devices of the second group.
- 47. [Previously Presented] The article of claim 32 wherein each of the search procedures is configured to be executed by the processing circuitry independent of others of the search procedures to provide unique identifications which completely identify the wireless identification devices.

48. [Previously Presented] The method of claim 1 wherein the search procedures are individually configured to enable identification of a plurality of the wireless identification devices during a single execution of the respective individual search procedure.

49. [Previously Presented] The article of claim 32 wherein the search procedures are individually configured to enable identification of a plurality of the wireless identification devices during a single execution of the respective individual search procedure.

50. [New] The method of claim 1 wherein the search procedures individually include a plurality of steps which are performed to identify the wireless identification devices within the wireless communications range of the reader, wherein the steps of the selected one of the search procedures are different than the steps of a non-selected one of the search procedures.

51. [New] The method of claim 50 wherein one of the steps of the selected one of the search procedures is not present in a non-selected one of the search procedures.

52. [New] The method of claim 1 wherein the identifying comprises identifying all of the wireless identification devices within the wireless communications range of the reader using the selected one of the search procedures.

- 53. [New] The method of claim 12 wherein the search procedures individually include a plurality of steps which are performed to identify the wireless identification devices within the wireless communications range of the reader, wherein the steps of the selected one of the search procedures are different than the steps of a non-selected one of the search procedures.
- 54. [New] The method of claim 12 wherein the identifying comprises identifying all of the wireless identification devices within the wireless communications range of the reader using the selected one of the search procedures.
- 55. [New] The reader of claim 20 wherein the search procedures individually comprise a plurality of steps which are performed by the processing circuitry to identify the wireless identification devices within the wireless communications range of the reader, and wherein the steps of the selected search procedure are different than the steps of a non-selected search procedure.
- 56. [New] The reader of claim 20 wherein the processing circuitry is configured to identify all of the wireless identification devices within the wireless communications range using the selected search procedure.
- 57. [New] The article of claim 32 wherein the search procedures individually comprise a plurality of steps which are performed by the processing circuitry to identify the wireless identification devices within the wireless communications range of the

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reader, and wherein the steps of the selected one of the search procedures are different than the steps of a non-selected one of the search procedures.

58. [New] The article of claim 32 wherein the search procedures are

individually configured to cause the processing circuitry to identify the presence of all of the wireless identification devices which are present within the communications range of

the reader.